

file name(s)	Obj.	Array Pattern	DB Filepath	Fig. No	Figure Description	p (mbar)	u (um/s)	Deborah number	Comment
									1.43 relax time [s]
									11.2 length scale quadratic
					2D FFT refers to two-dimensional spatial Fourier transforms				10.9 length scale hexagonal
					1D FFT refers to temporal Fourier transforms				11.5 length scale disordered
					Note that movie S1 is composed of raw data from three different files				100 length scale sparse
2x_25mbar_027.nd2	2x	Quadratic	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	25	46		5.9
2x_200mbar_028.nd2	2x	Quadratic	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	200	560		72
2x_500mbar_026.nd2	2x	Quadratic	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	500	1700		217
2x_1000mbar_030.nd2	2x	Quadratic	Figs 1 2 3 4 5	S5, S6, 1, 2, 3, 4, 5, MOV1	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S5, S6, MOV1	1000	3700		472 MOVIE S1
2x_59mbar_023.nd2	2x	Hexagonal	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	59	160		21
2x_235mbar_027.nd2	2x	Hexagonal	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	235	720		94
2x_471mbar_028.nd2	2x	Hexagonal	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	471	1400		184
2x_2000mbar_031.nd2	2x	Hexagonal	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5, MOV1	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6, MOV1	2000	5200		682 MOVIE S1
2x_25mbar_098.nd2	2x	Disordered	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	25	120		15
2x_50mbar_097.nd2	2x	Disordered	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	50	370		46
2x_100mbar_099.nd2	2x	Disordered	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	100	920		114
2x_200mbar_100.nd2	2x	Disordered	Figs 1 2 3 4 5	S6, 1, 2, 3, 4, 5	Fig 1 Macro still imgs, Fig 2 Kymographs, Fig 3 2D FFT, Figs 4 5 1D FFT graphs, Fig S6	200	2000		249
2x_500mbar_101.nd2	2x	Disordered	MOV S1	MOVIE S1	Raw data for ESI Movie S1	500	6700		833 MOVIE S1
4x_50mbar_011.nd2	4x	Quadratic	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	50	110		14
4x_200mbar_021.nd2	4x	Quadratic	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	200	560		72
4x_500mbar_024.nd2	4x	Quadratic	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	500	1700		217
4x_1000mbar_003.nd2	4x	Quadratic	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	1000	3700		472
4x_59mbar_006.nd2	4x	Hexagonal	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	59	160		21
4x_118mbar_003.nd2	4x	Hexagonal	Fig S3	S3	Fig S3 Mean vs Std figure	118	420		55
4x_235mbar_001.nd2	4x	Hexagonal	Fig 6	6	Fig 6 Long time avg	235	720		94
4x_471mbar_004.nd2	4x	Hexagonal	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	471	1400		184
4x_1176mbar_010.nd2	4x	Hexagonal	Fig 6	6	Fig 6 Long time avg	1176	2600		341
4x_2000mbar_012.nd2	4x	Hexagonal	Fig S3	S3	Fig S3 Mean vs Std figure	2000	5200		682
4x_25mbar_094.nd2	4x	Disordered	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	25	120		15
4x_50mbar_092.nd2	4x	Disordered	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	50	370		46
4x_100mbar_081.nd2	4x	Disordered	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	100	920		114
4x_200mbar_079.nd2	4x	Disordered	Figs 6 S3	6, S3	Fig 6 Long time avg, Fig S3 Mean vs Std	200	2000		249
10x_1000mbar_mid_sola20_010.nd2	10x	Sparse	MOV S4	MOVIE S4	Raw data for ESI Movie S4	1000	11000		157.3 MOVIE S4
20x_10-100-200-500-1000-3000mbar_pos5_sola100_008.nd2	20x	Disordered	Fig 7 MOV S3	7	Fig 7 Random flow var. figure, ESI movie S3	overall 10 -3000	260, 36468		32, 4535 MOVIE S3
100x_0-10-20-1500mbar_pos3_sola20_009.nd2	100x	Quadratic	Fig 8	Fig 8(E-H)	Fig 8 Polarization figure	100, 1000	130, 5800		17, 740
100x_0to2250mbar_mid_sola20_022.nd2	100x	Hexagonal	Fig 8	Fig 8(I-L)	Fig 8 Polarization figure	118, 2250	6500		853
100x_20-7-21-425-830mbar_sola5_010.nd2	100x	Sparse	Fig 8	Fig 8(A-D)	Fig 8 Polarization figure	21, 830	6100		87
100x_500mbar_sola10_007.nd2	100x	Sparse	MOV S2	MOVIE S2	Raw data for ESI Movie S2 (polarization)	500	6100		87 MOVIE S2
10x_3,8mbar_400ngul_lambda_y1-1-200_sola100_002.nd2	10x	Sparse	Fig 9	Fig 9(A, B)	Fig 9 Sparse Kymographs figures	3.8	190		2.7
10x_31mbar_ET19ms_2min_sola50_012.nd2	10x	Sparse	Fig 9	Fig 9(A, B)	Fig 9 Sparse Kymographs figures	31	310		4.4
10x_77mbar_ET19ms_2min_sola50_013.nd2	10x	Sparse	Fig 9	Fig 9(A, B)	Fig 9 Sparse Kymographs figures	77	550		7.9
10x_154mbar_ET19ms_2min_sola50_016.nd2	10x	Sparse	Fig 9	Fig 9(A, B)	Fig 9 Sparse Kymographs figures	154	1000		14
10x_308mbar_ET11ms_sola100_021.nd2	10x	Sparse	Fig 9	Fig 9(A, B, C, D)	Fig 9 Sparse Kymographs figures	308	1800		26
10x_1000mbar_ET11ms_10s_sola100_022.nd2	10x	Sparse	Fig 9	Fig 9(A, B)	Fig 9 Sparse Kymographs figures	1000	11000		157